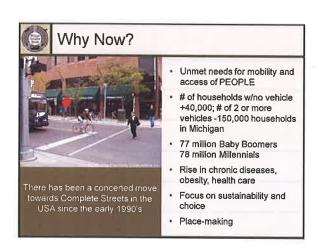
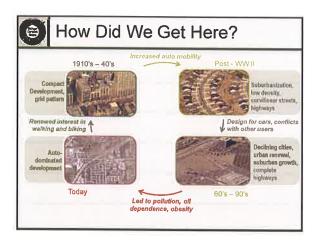




Michigan Law	
PA 135 OF 2010 (Amended 1951 PA 51) Requires integurisdictional consultation on non-motorized projects and 5-year program Use of established best practices Establish an Advisory Council to educate fadvise transportation stakeholders and the public on the development, implementation and coordination of CS policies MDOT may provide technical assistance and will share expertise on trunk line projects Enables interjurisdictional agreements for maintenance	PA 134 of 2010 (Amended 2008 PA 33): Definition of "streets" expanded to include all legal users Expands elements that may be included in a master plan to include all forms of transportation Specifies that transportation improvements be appropriate to their context Specifies cooperation with road commission and MDOT Effective Aug. 2010

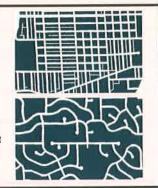






Street Types

- Pre WWII: tight street grid, straight connected streets, sidewalks and alleys, block size 400' or <
- Post WWII: curvilinear streets, cul-de-sacs, few sidewalks, large blocks at 600' or > and super blocks at ½ - 1 mile



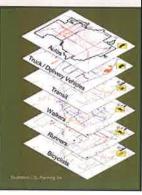
Land Use Patterns

Traditional Transportation Planning Traditional functional classification Expressways Major/Minor Arterials Collectors Local Streets Focused on moving cars and trucks Similar to Act 51 funding maps (major & minor streets)



Transportation Systems Thinking

- Multi-modal network
- Primary network for each user (not all cyclists have same needs)
- Not every street will accommodate each user equally
- Plan a system with a good "quality of service" for all users





Cultural Shift

- ACCESS
 - Interconnected networks (destinations linked by roads, sidewalks, trails and transit)
- MOBILITY
 - Full array of facilities (on-street bike lanes, sidewalks, pathways, trails, transit, etc.)
- SAFETY
 - Facilitate safe movement along and across streets (crosswalks, access management, traffic signals, etc.)
- CHARACTER
 - Match street design to user needs and context (includes everything in public right-of-way)



Vision Statement

Adopted by the Complete Streets Advisory Council April, 2012

- "A transportation network that is accessible, interconnected, and multimodal and that safely and efficiently moves goods and people of all ages and abilities throughout the State of Michigan.
- A process that empowers partnerships to routinely plan, fund, design, construct, maintain and operate complete streets that respect context and community values.
- <u>Outcomes</u> that will improve economic prosperity, equity, accessibility, safety and environmental quality."

Consequences and Benefits - Safety - Public Health - Mobility/Equity/ Access/Choice - Environment - Economic Development



Safety Consequences

Roads are engineered for high motor vehicle volumes and speeds

- · Severe crashes/fatalities
- · Signals timed for cars
- Congestion
- Auto emissions
- Discourages bicycling, walking, and transit use = rise in obesity rates
- Low income populations lack access to jobs and fresh food



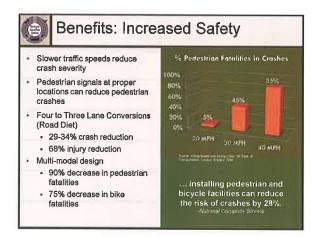


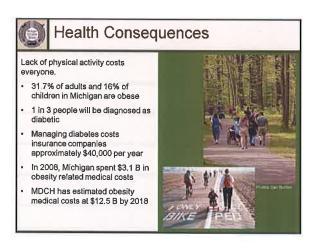
Non-Motorized Accidents

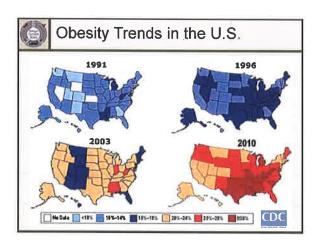
Pedestrian and Bicycle Crashes in Michigan

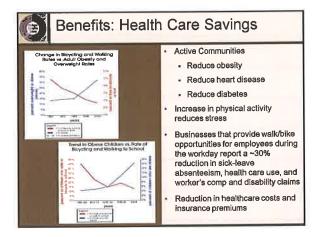
- 1.4% of all crashes
- 12.5% of all fatal and incapacitating injury crashes
- 12.8% of the comprehensive cost of all crashes
- Pedestrian and bicycle crashes represent a comprehensive cost of ~ \$921,000,000 each year in the State of Michigan

Based on an analysis of 2008 – 2012 MDOT data and Cost/Benefit Analysis

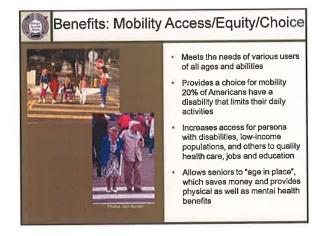








Mobility/Access/Choice Consequences At least 1/3 of Americans don't drive S5% of Americans would rather drive less and walk more 72% of trips are 1 mile or less, in Michigan 90.5% are by car Mobility/Access/Choice Consequences Who doesn't drive? By necessity Seniors Persons with disabilities Children Those lacking means to afford a car Court-ordered By choice Many reasons – health, environment, enjoyment and costs



Environmental Consequences Vehicles create 30% of Michigan's ozone-forming Commute Year pollutants miles/person Between 1960 and 2001, Michigan's CO2 emissions from 1945 5 fossil fuels increased by 46%-1965 13 primarily as a result of oil 1985 20 combustion for transportation 2005 40% of trips nationwide are 3 miles or less; 72% of trips less than 1 mile are made by auto 27 In Michigan, 90,5% of trips were made by auto

